Rui Alves

Informatics Engineering MSc Student - Faculty of Engineering of UP

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in rui-pedro-alves

Web development and software architecture enthusiast. Keen on competitive programming competitions. Passionate about teaching and learning new things.

EXPERIENCE

Fractal Porto, Portugal

Full-Stack Software Engineering Intern

July 2019 - September 2019

- o Took part in the development of an OAuth platform (Log in with Fractal ID) with KYC/AML regulation
- o Responsible mostly for Backend development, configuring mailer services, improving test suites and DevOps tasks such as Docker and CI tools configuration. At the Frontend level, refactored several components.
- o The main difficulty was to quickly adapt to a completely new technology stack while having to understand a very complex OAuth platform architecture with high security standards.
- o Ruby on Rails, ReactJS, Redux, Docker, CI tools configuration

Fraunhofer Portugal Porto, Portugal

Full-Stack Software Engineering Intern

July 2018 - September 2018

- o Developed a web app video player component that allows video streaming, manipulation and live annotation
- o Responsible for investigating different implementation options, implementing a Backend API that supports video streaming and annotation and integrating it the aforementioned video component
- o The main difficulty was to deal with the many constraints imposed by the video player framework used, which was overcome by implementing a set of custom plugins.
- o Java Springboot, Jersey, Morphia, ReactJS, MobX and VideoJS

EDUCATION

Faculty of Engineering - University of Porto

Porto, Portugal

Integrated Master's Degree in Informatics and Computation Engineering

2016 - Present

Current Grade: 18.85/20

Rio Tinto High School Rio Tinto, Portugal 2013 - 2016 Sciences and Technologies

Final Grade: 19/20

PROJECTS

WVAT - Web Vulnerability Assessment Tool

October 2019 - January 2020

7 People

- o Team Leader of a Scrum-like team in the development of a CLI tool open-source project (Maintainer) that performs domain network assessments, finding its sub-domains and pages in order to obtain their technologies, matching them with known vulnerabilities (CVEs) and cross-referencing them with possible exploits
- o The main difficulties were adapting to such a specific tech domain (mostly web security) and to make the tool scalable enough to deal with large domains, which was made by betting on parallelization optimizations and efficient data-structures selection
- o NodeJS (Javascript), Oclif CLI framework, Amass, js-crawler, Wappalyzer, Webtech, CircleCI (CI/CD)

Chess Club Website December 2018 - present

1 Person

- o Web Application for a Chess Club, presenting articles, archive collection items and tournaments/players information, featuring a back-office for information management for club the administration
- o The main difficulties were making progress while working on many University assignments and being responsible for the Full Stack process, having to learn many new concepts regarding infrastructure configuration and deployment, which were overcome by executing small PoCs and thorough investigation
- o MeteorJS, ApolloJS Server & Client, GraphQL, MongoDB (Atlas), ReactJS, Bootstrap, AWS Services